

IN THE CLAIMS

Please amend claims 1 and 3 as indicated.

1. (Currently Amended) A balloon catheter comprising:
a longitudinal shaft having a lumen in fluid communication with a catheter tip; and
a tubular balloon having proximal and distal ends attached to said shaft such that
said balloon is coaxially aligned with said shaft, said distal end being attached to said
shaft at a first annulus a distance from said tip, and said proximal end attached at a
second annulus a greater distance from said tip, said distal and proximal ends of said
balloon attached to said shaft a distance apart that is less than an unattached length of
said balloon therebetween whereby a plurality of gathers is formed in said balloon such
that inflation of said balloon causes a portion of said balloon to migrate distally over the
first annulus;

wherein said balloon is configured such that inflation of said balloon causes at
least a portion of said balloon to be positioned proximally past the distal most point of
a proximal cuff of said balloon.

2. (Original) The balloon catheter as in claim 1, wherein said gathers are
disposed such that upon inflation of said balloon, the balloon extends distally of said first
annulus and proximally of said second annulus.

3. (Currently Amended) A balloon catheter, comprising:
a longitudinal shaft having a lumen in fluid communication with a catheter tip; and
a tubular balloon having proximal and distal ends attached to said shaft such that
said balloon is coaxially aligned with said shaft, and a plurality of adjacent annular
restraining rings formed integrally with the balloon between said proximal and distal

ends, said restraining rings being configured to limit radial expansion of said balloon at said restraining rings, while enabling generally uniform circumferential expansion of said balloon on each side of said rings radially beyond the rings when the balloon is inflated;

wherein said balloon is configured such that a proximal lobe is formed when said balloon is inflated that extends in a proximal direction at least partially past the distal most point of a proximal cuff of said balloon.

4. (Original) The balloon catheter of claim 3, wherein a plurality of said restraining rings are disposed at a central portion of said balloon, so as to form proximal and distal lobes when said balloon is inflated.

5. (Original) The balloon catheter of claim 3, wherein said restraining rings are spaced apart.